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# HE UNITED STATES PATENT AND TRADEMARK OFFICE

IT FED 27 PH 10: 21

In re Application

Inventor:

Jeffrey W. Carr

Appl. No.: Confirm. No.: 2209

10/002,483

Filed:

November 1, 2001

Title:

Method for Atmospheric Pressure Reactive Atom

Plasma Processing for Surface Modification

PATENT APPLICATION

Art Unit:

1763

Examiner:

Allan W. Olsen

Customer No. 23910

CERTIFICATE OF TRANSMISSION/MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being facsimile transmitted to the USPTO [total number of pages transmitted \_\_\_\_] or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Laura Hulac

Signature Date: 2-17-06

REQUEST FOR REFUND OF EXCESS FEES PAID UNDER 37 C.F.R. §1.26

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.26(a), Applicant requests refund of a fee paid in excess of that required with respect to the above-identified patent application.

A fee of \$180.00 was paid for an Information Disclosure Statement as evidenced by the

A copy of the returned check; or

A copy of a deposit account charge statement.

Applicant respectfully requests a refund of \$ 180.00 for the excess fee paid.

Pursuant to 37 C.F. R. § 1.26(b) this request for refund is being submitted within two years from the date of payment of the fee paid in excess as identified above.

-1-

Attorney Docket No.: CARR-01000US2 DXue/Carr/1000/1000US2//1000us2 request for refund - ids with isr.wpd

109.001:123103 02/14/06-12:15 A copy of the Information Disclosure Statement as filed, with International Search Report,

Please credit the refund to our Deposit Account No. 06-1325. A duplicate copy of this document is enclosed.

Respectfully submitted,

2/17/05 Date: \_

By: David T. Xue

Reg. No. 54,554

Customer No. 23910 FLIESLER MEYER LLP Four Embarcadero Center, Fourth Floor San Francisco, California 94111-4156 Telephone: (415) 362-3800

#### HE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application

Inventor(s):

Jeffrey W. Carr

Appln. No.: Confirm. No.: 10/002,483

Filed:

2209 November 1, 2001

Title: METHOD FOR ATMOSPHERIC PRESSURE REACTIVE ATOM PLASMA

PROCESSING FOR SURFACE MODIFICATION

#### PATENT APPLICATION

Art Unit:

1763

Examiner:

Allan W. Olsen

Atty. Docket No.: CARR-01000US2

Customer No. 23910

#### **CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8**

I hereby certify that this correspondence is being deposited in the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

(Signature)

?/02/2005 YPOLITE1 00000025 10002483

\_Signature Date:

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180.00 OP

#### INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56. If this is a continuation, divisional or continuation-in-part application, it is understood that the Examiner will consider all information which was considered by the Office in a parent application. MPEP §609. Such information therefore is not listed herein unless it is desired that the information be printed on a patent issuing from the subject application.

#### Enclosed with this statement are the following:

1	Form PTO-1449.	The	Examiner	is	requested	to	initial	the	form	and	return	it	to	the
	undersigned in acc	corda	nce with M	[.P]	E.P. §609.									

Copies of cited U.S. patents and publications are not enclosed. However, copies of cited
foreign patent documents and non-patent literature are enclosed in accordance with 37
CFR 1.98(a)(2), as required, except for those items designated by an asterisk (*), which
were previously submitted by the applicant in a parent application, from which benefit
under 35 U.S.C. §120 is claimed, with an Information Disclosure Statement submitted in
the parent application which complies with the September 8, 2000 or subsequent revision
of 37 C.F.R. §1.98(a-c), as allowed under 37 C.F.R. §1.98(d)(1).

 If any of the cit	ted/submitt	ted docum	nents is	in a fore	eign language,	a concise	explanation	of
 If any of the cit relevance is p	provided p	ursuant	to 37	C.F.R.	§1.98(a)(3)(i).	For for	reign langua	ige

Attorney Docket No.: CARR-01000US2

DXue/Carr/1000/1000US2/Information Disclosure Statement

Adjustment date: 05/18/2006 SDIRETA1 12/02/2005 YPOLITE1 00000025 10002483 -180.00 OP 01 FC:1806

documents cited in a search report by a foreign patent office, the requirement for a concise explanation of relevance is satisfied by the submission herewith of an English language version of the search report. MPEP §609A(3). If a written English-language translation of a non-English language document, or portion thereof, is within the possession, custody or control of, or is readily available to any individual designated in and satisfies the requirement for a concise explanation of relevance, MPEP §609A(3).

Information Disclosure Statement was cited in a communication from a foreign patent individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

# This statement should be considered because:

- 37 C.F.R. §1.97(b). This statement qualifies under 37 C.F.R. §1.97, subsection (b) because:
  - It is being filed within three months of the filing date of an application other than a continued prosecution application under § 1.53(d);
  - (2) It is being filed within 3 months of entry of a national stage;
  - (3) It is being filed before the mailing date of the first Office Action on the
  - It is being filed before the mailing date of the first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114.
- \_\_\_\_ 37 C.F.R. §1.97(c). Although it may not qualify under subsection (b), this statement qualifies under 37 C.F.R. §1.97, subsection (c) because:
  - (1) It is being filed before the mailing date of a FINAL Office Action, a Notice of Allowance, or an action that otherwise closes prosecution in the subject application, whichever occurs first.
    - -- AND (check at least one of the following) --
  - (1) It is accompanied by a STATEMENT as set forth in 37 C.F.R. S1.97(e).
  - X (2) It is accompanied by the \$180 fee set forth in 37 C.F.R. §1.17(p).
- 37 C.F.R. §1.97(d). Although it may not qualify under subsection (b) or (c), this statement qualifies under 37 C.F.R. §1.97, subsection (d) because:
  - (1) It is being filed on or before payment of the Issue Fee;
  - (2) It is accompanied by a STATEMENT as set forth in 37 C.F.R. §1.97(e);
  - (3) It is accompanied by the \$180 fee set forth in 37 C.F.R. §1.17(p).

Fee Authorization. The Commissioner is hereby authorized to charge any deficiencies or credit any overpayment to Deposit Account No. 06-1325. A duplicate copy of this

Respectfully submitted,

FLIESLER MEYER LLP

Date: 11/30/05

By:

David T. Xue Reg. No. 54,554

Customer No. 23910
FLIESLER MEYER LLP
Four Embarcadero Center, Fourth Floor
San Francisco, California 94111-4156

Telephone: (415) 362-3800 Facsimile: (415) 362-2928

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Substitute) PATENT AND TRADE	Attorney Docket Number	
(Substitute) PATENT AND TRADEMARK OFFICE  Information Disclosure Statement  BY APPLICANT	CARR-01000US2	Serial/Patent Number 10/002,483
(Use several sheets if necessary)	Applicant/Patent Owner  Jeffrey W. Carr i	
FEB 2 1 2003	Filing/Issue Date November 1, 2001	Group Art Unit 1763

		FOREIGN PATEN	T DOCUMENTS			
Examiner Initial	Document Number	Publication Date	Country	Class	Subclass	Trans- lation
	International Search Report Mailed 31 Oct 2005	1 1	PCT			Yes   No

Examiner	1
*EXAMINER: Initial if citation	Date Considered
*EXAMINER: Initial if citation considered, whether or not citation is conformance and not considered. Include copy of this form with next *1 = Copy not submitted because it was submitted to	in conformance with MPEP 609. Draw line through sides
*1 = Copy not submitted because it was submitted in prior application  *2 = Copy not submitted because it was submitted in prior application	communication to applicant.
*2 = Copy not submitted because it was submitted in prior application	CN relied on under 35 HSC \$120
	filed, 20 relied on under 35 USC §120.

## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

- SEARCHING	AUTHORITY		•
To:			· D. COR
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Applicant		day/month/year) 05 Man	ch 2004 (05.03.2004)
RAPT INDUSTRIES, INC.			1
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1. The applicant is hereby notified that the have been established and are transmitted	international second		
have been established and are transmitte	d herewith	ort and the written opinion of	of the International Searching Authorit
			•
Filing of amendments and statement us. The applicant is entitled if he consider	nder Article 19:		•
The applicant is entitled, if he so wishes,	to amend the claims of	the international application	(see Rule 46):
When? The time limit for filing such	amendments is norma	lly two months from the dos	c of transmittal of the international
			of transmittal of the international
Where? Directly to the International	Bureau of WIPO 24 of		
1211 Geneva 20, Switzerlan	J. Facsimile No · (41-7)	emin des Colombettes	
For more detailed instructions, and the		s) 330.82,70 <b>.</b>	•
For more detailed instructions, see the	e notes on the accompa	nying sheet.	i
applicant is nereby notified that no in	emational search repor	t will be established and the	
	en opinion of the Intern	ational Searching Authority	dine deciaration under
With regard to the protest against paym	ent of (on) additional c	/ \	are transmitted herewith.
With regard to the protest against paym	on or (any additional le	c(s) under Rule 40.2, the ap	plicant is notified that:
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no decision has been made vet and	e protest and the decisi	on thereon to the designated	Offices
no decision has been made yet on the	protest; the applicant w	ill be notified as soon as a d	doining in the
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Shortly after the expiration of 18 months from the Bureau. If the applicant wishes to avoid or postpon	ne priority date, the int	ternational application will	be published by the International
Bureau. If the applicant wishes to avoid or postpon claim, must reach the International Bureau as proving preparations for international Bureau as proving the proving	e publication, a notice (	of withdrawal of the internat	ional application, or of the priority
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ine applicant may submit comments on an inc			
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examination must be filed if the applicant wishes to some Offices even later); otherwise, the applicant minto the national phase before the	postpone the entry inco	designated Offices, a dema	ind for international preliminary
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in respect of other designated Offices, the time limit	of 30 months (or less)		•
See the Annex to Form PCT/IB/301 and, for details	shout the and' at	will apply even it no demand	ly is filed within 19 months.
1/-L- 10 details	about the applicable t	ime limits, Office by Office,	see the PCT Applicant's Guide
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See the Annex to Form PCT/IB/301 and, for details Volume II, National Chapters and the WIPO Internet	site.		
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160 CARR-01000USZ

Jers : @ December 3 2ans

(See notes on accompanying sheet)

## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CARR01003WO0	ACTION as well as, who	Form PCT/ISA/220 re applicable, item 5 below.
International application No. PCT/US04/06773	International filing date (day/month/year) 05 March 2004 (05.03.2004)	(Earliest) Priority Date (day/month/se
Applicant RAPT INDUSTRIES, INC.		07 March 2003 (07.03.2003)
It is also accompanied  It is also accompanied  I. Basis of the Report  a. With regard to the language, the the international a translation of the of a translation ful of a translation ful the international construction of a translation ful the international attacking the desired to the title,  Unity of invention is lacking with regard to the title,  the text is approved as submitted.	international search was carried out on the basis application in the language in which it was filed the international application into	is of:  d. , which is the language
With regard to the abstract,  the text is approved as submitted the text has been established, as may, within one month from the	ed by the applicant.  Excording to Rule 38.2(b), by this Authority as it is date of mailing of this international search repo	appears in Box No. IV. The applicant
With regard to the drawings,  a. the figure of the drawings to be publ  as suggested by the app  as selected by this Author	lished with the abstract is Figure No. 4 licant.  ority, because the applicant failed to suggest a finity, because this figure better characterizes the	ort, submit comments to this Authority.

#### INTERNATIONAL SEARCH REPORT International application No. PCT/US04/06773 CLASSIFICATION OF SUBJECT MATTER IPC(7) B23K 10/00 US CL 219/121.4, 121.41, 121.59; 204/298.37; 315/111.51 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 219/121.4, 121.41, 121.59; 204/298.37; 315/111.51 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DOCUMENTS CONSIDERED TO BE RELEVANT C. Category • Citation of document, with indication, where appropriate, of the relevant passages US 6,218,640 B1 (SELITSER) 17 APRIL 2001, SEE ENTIRE DOCUMENT. Α Relevant to claim No. 1-46 Y 18-20 US 3,953,704 A (BEJAT ET AL) 27 APRIL 1976, SEE ENTIRE DOCUMENT. Y 1-46 US 6,262,523 BI (SELWYN ET AL) 17 JULY 2001, SEE ENTIRE DOCUMENT, Α 1-46 US 6,424,091 B1 (SAWADA ET AL) 23 JULY 2002, SEE ENTIRE DOCUMENT Α 1-46 Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: T later document published after the international filing date or priority date "A" document defining the general state of the art which is not considered to be of and not in conflict with the application but cited to understand the principle or theory underlying the invention earlier application or patent published on or after the international filing date "E" "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step "L" document which may throw doubts on priority claim(s) or which is cited to when the document is taken alone establish the publication date of another citation or other special reason (as specified) **"Y"** document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined document referring to an oral disclosure, use, exhibition or other means 707 with one or more other such documents, such combination being obvious to a person skilled in the art document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 29 September 2005 (29.09.2005) Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 571-272-4784 Facsimile No. (571) 273-3201 Form PCT/ISA/210 (second sheet) (April 2005)

## PATENT COOPERATION TREATY

To: SHELDON R. MEYER FLESLER MEYER			P	CT
FLIESLER MEYER LLP FOUR EMBARCADERO CENTER		1		CI
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		LILEIGIA	HONAL SE	ARCHING AUTHORITY
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nternational application No.	International filing date	day/month		
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nternational Patent Classification (IPC) or	05 March 2004 (05.03.20 both national classification	904)	07 March 20	003 (07.03.2003)
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APT INDUSTRIES, INC.				
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1. This opinion contains indications relati	ng to the following items:		į	
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Box No. II Priority				
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P.O. Box 1450 Alexandria, Virginia 22313-1450				· · · · · · · · · · · · · · · · · · ·

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/06773

	PCT/US04/06773
Box No. 1 Basis of this opinion	
1 With seconds 12	
1. With regard to the language, this opinion has been established on the basis of	!
and international application in the language in which it was file	.d
a translation of the international application into, which is the land international search (Rules 12.3(a) and 23.1(b)).	<b>.</b>
international search (Rules 12.3(a) and 23.1(b)).	nguage of a translation furnished for the purpose:
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2. With regard to any nucleotide and/or amino acid sequence disclosed in the invention, this opinion has been established on the basis of:	international application and necessary to the ele-
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# WRITTEN OPINION OF THE

International application No. PCT/US04/06773

INTERNATIONAL SEARCHIN	G AUTHORITY	PC1/US04/06773	
Box No. V Reasoned statement under Ru applicability; citations and exp	le 43 <i>bis</i> .1(a)(i) with regard lanations supporting sucl	d to novelty, inventive step or industratement	ıstrial
1. Statement			
Novelty (N)	Claims 1-46	• •	
•	Claims NONE		YE
Instanting of Arm			NO
Inventive step (IS)	Claims NONE		YE
	Claims 1-46	•	NO
Industrial applicability (IA)	Claims 1-46	;	
	Claims NONE		YES
			NO
itations and explanations: ims 1-17,21-46 lack an inventive step under PCT isma flame torch that uses reactive gases at atmos			
		; ;	
lasma flame torch that uses reactive gases at atmosof substrates. Bejat et al is applied for evidencing ame torch, as claimed. Note column 2, lines 57-70 aprise a flame torch, as claimed.	41 4 4	me, which is cleaning materials such as	photo main
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Claims 18-20 lack an inventive step under PCT Arer in view of the disclosed prior art. The disclose entional to planarize and polish work, as claimed.	rticle 33(3) as being obvious o d prior art in the instant disclo	ver Selitzer in view of Bejat, as set forth sure is relied on for evidencing that it is	above,
ns 1-46 meet the criteria set out in PCT Article 33 ade or used in industry.	(4), and thus have industrial a	pplicability because the subject matter cla	aimed can
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